

Monthly Newsletter

Monthly newsletter from the editors of Photonics Spectra, with features, popular topics, new products, and what's coming in the next issue. Photonics.com/subscribe.



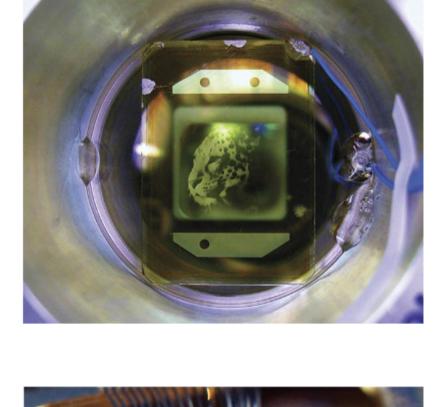
Vital Measurement Values in a Single Shot

White Light Interferometry Returns

is critical for applications ranging from optics, flexible electronics, and microelectromechanical systems manufacturing to semiconductor advanced packaging and energy technologies. Many methods — both contact and noncontact — are used to obtain film thickness measurements. In terms of cost-effectiveness and speed of operation, white light interferometry offers considerable

Obtaining accurate control over film thickness and uniformity

advantages to system designers and developers. Read Article



Dynamics The ability of liquid crystals to avoid certain critical size limitations that affect most solid crystals enables their

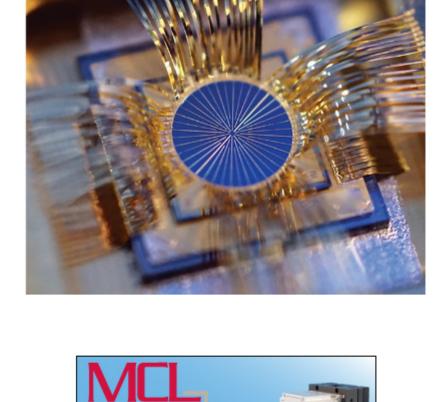
Beyond Displays, Liquid Crystal

Optical Devices Harness Rugged

usefulness for applications in precision optics. Their use in flat panel displays such as television screens and computer monitors demonstrates that liquid crystals do not face these size limitations. This allows them to be particularly effective as optical devices, enabling users to take advantage of important properties of laser light. Read Article

PCSELs May Redefine Diode Lasers in

Industry and Lidar



technology and has come a long way. From a fragile, liquid nitrogen-cooled laboratory device, it has evolved into an integrated, highly energy-efficient laser system. Today, laser

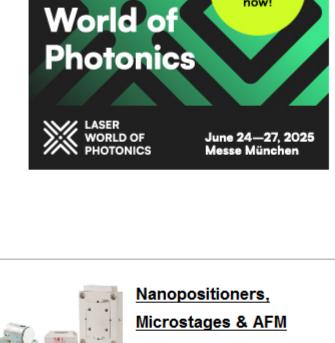
The concept of diode lasers was born early in the age of laser

diodes are the fundamental solution in most laser materials processing devices. They also drive the internet, enable quantum research, and are a prerequisite for any laser fusion scheme. Read Article Secure Laser

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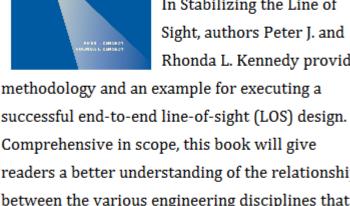
Mad City Labs offers a complete product line of high

precision piezo nanopositioners, micropositioners,

single molecule microscopes, and atomic force

microscopes (AFM/NSOM). Applications —

In Stabilizing the Line of



QF SIGHT

Rhonda L. Kennedy provide a methodology and an example for executing a

Sight, authors Peter J. and

Photonics Media

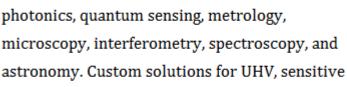
Comprehensive in scope, this book will give readers a better understanding of the relationships between the various engineering disciplines that are required for successful LOS control.

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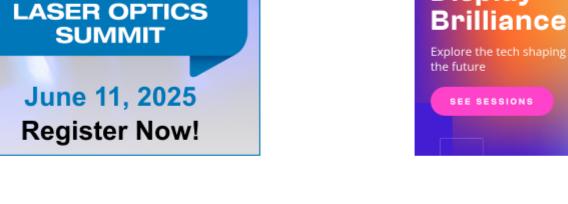
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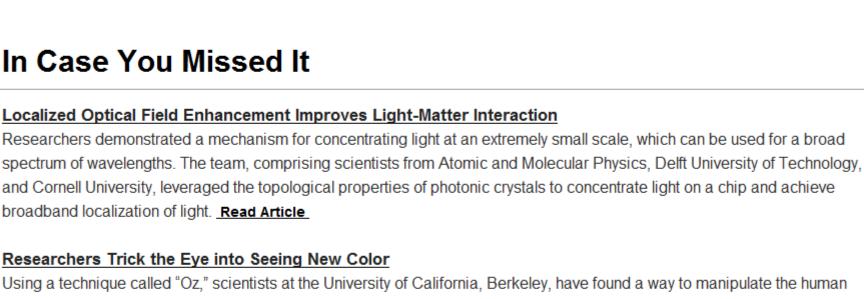
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Next-Gen

Display



eye into seeing a new color — a saturated blue-green color the team has named "olo." Read Article



Scientists at the Fraunhofer Institute for Photonic Microsystems IPMS have developed a high-voltage CMOS backplane that enables exceptionally bright OLED-based microdisplays. The approach allows for full color maximum brightness over 10,000 candela per square meter (cd/m2) without compromising lifespan or reliability. Read Article

In Case You Missed It

broadband localization of light. Read Article

Researchers Trick the Eye into Seeing New Color

High-Voltage CMOS Backplane Enables Bright OLED Microdisplays

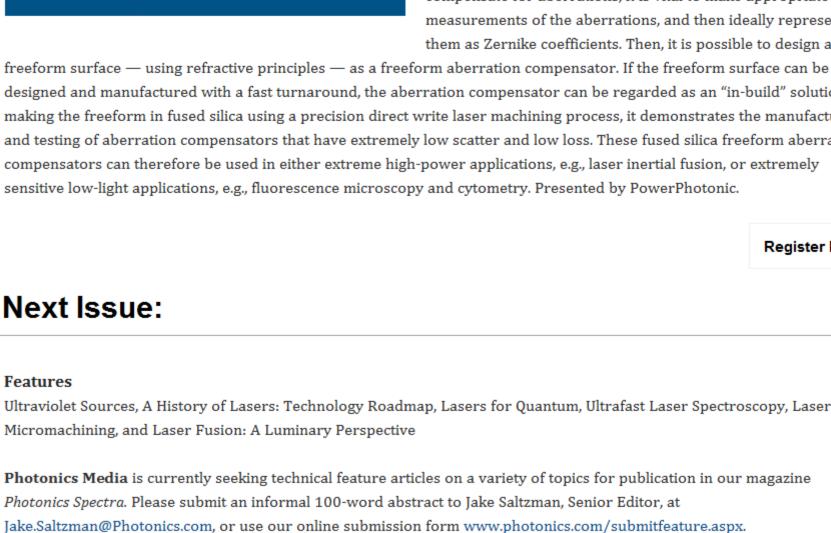
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compensate for aberrations, it is vital to make appropriate measurements of the aberrations, and then ideally represent them as Zernike coefficients. Then, it is possible to design a designed and manufactured with a fast turnaround, the aberration compensator can be regarded as an "in-build" solution. By making the freeform in fused silica using a precision direct write laser machining process, it demonstrates the manufacture and testing of aberration compensators that have extremely low scatter and low loss. These fused silica freeform aberration

Practical Aberration Correction Using

Freeform Optics — Pushing the

Boundaries of Laser System

Thu, Jun 12, 2025 10:00 AM - 11:00 AM EDT

Many laser systems — whether they are for industrial,

Optical aberrations in the laser system (pointing, defocus,

deviates from that of the design intent of the system. To

biomedical, or defense applications — are designed to create a well-defined output spot or beam; this is required for the laser process to be as efficient, productive, and effective as possible.

spherical, astigmatic, coma, etc.) come from a variety of sources and affect the extent to which the actual output spot (or beam)

Ultraviolet Sources, A History of Lasers: Technology Roadmap, Lasers for Quantum, Ultrafast Laser Spectroscopy, Laser

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